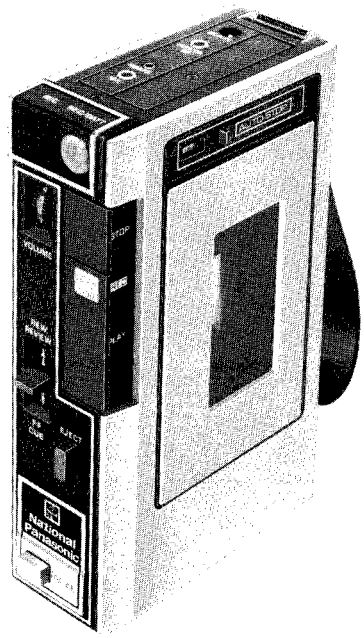
ORDER NO. ARD-7501001C

Service Manual

National
TAPE RECORDER
Panasonic

EXECUTIVE CASSETTE TAPE RECORDER WITH MIKE SENSITIVITY SWITCH AND ANTI-ROLLING MECHANISM



RQ-212S MECHANISM SERIES

MODEL RQ-317S

SPECIFICATIONS

Power source:	AC: 90~109, 110~125, 200~219, 220~250 volts, 50/60 Hz (with AC adaptor RP-667 included) Power consumptions: 6 W Battery: 6 volts, (four-UM-3, R6 size dry batteries) Car/boat battery: with optional car/boat adaptor RP-916, RP-914-E in Europe Rechargeable battery: with optional rechargeable battery pack RP-9214
Motor:	Electronic governor motor
Transistors:	2SC644Ⓜ(1) 2SC828(2) 2SB324(2) 2SC1317(1) 2SB172A(1)
Diodes:	OA91(1) OA90Z(1) 1S1211(1)
Power output:	400 mW...RMS (max.)
Frequency response:	50~10,000 Hz
Recording system:	AC bias
Operation:	Pushbutton one-touch operation with Auto-Stop mechanism and mechanical pause
Tape speed:	4.8 cm/s, (1-7/8 ips.)
Program time:	1 hour with C-60 cassette tape
Fast forward and rewind time:	Approx. 110 seconds with C-60 cassette tape
Track system:	2-track monaural recording and playback
Inputs:	MIC: sensitivity 0.28 mV/applicable microphone impedance 200~600Ω (recommended microphone WM-2213N) DC IN: 6 V
Outputs:	MONITOR: 8Ω REMOTE: for start and stop of hand
Speaker:	65 mm (2-1/2") PM dynamic speaker
Dimensions:	166 mm (W) × 110 mm (H) × 46 mm (D) 6-1/2" (W) × 4" (H) × 1-3/4" (D)

These specifications are subject to change in order to accommodate improvements in design.

Matsushita Electric
Matsushita Electric Trading Co., Ltd.
P. O. Box 288, Central Osaka, Japan

LOCATION OF PARTS

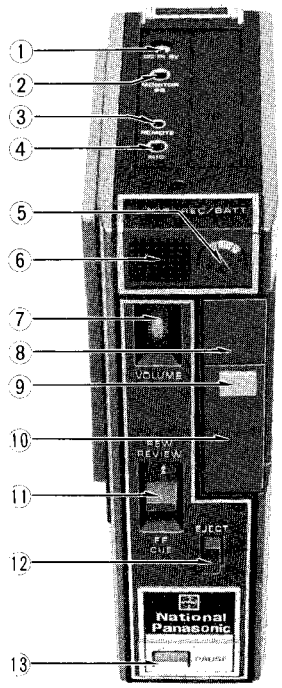


Fig. 1

① External power adaptor jack
② Monitor jack
③ Remote control jack
④ Microphone jack
⑤ Level meter
⑥ Built-in microphone
⑦ Volume control
⑧ Stop button
⑨ Record button
⑩ Playback button
⑪ Fast forward/cue/rewind/review control
⑫ Eject button
⑬ Pause button

DISASSEMBLY INSTRUCTIONS

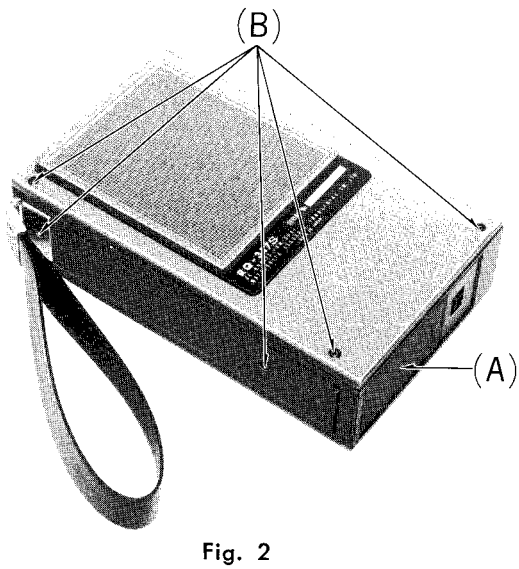


Fig. 2

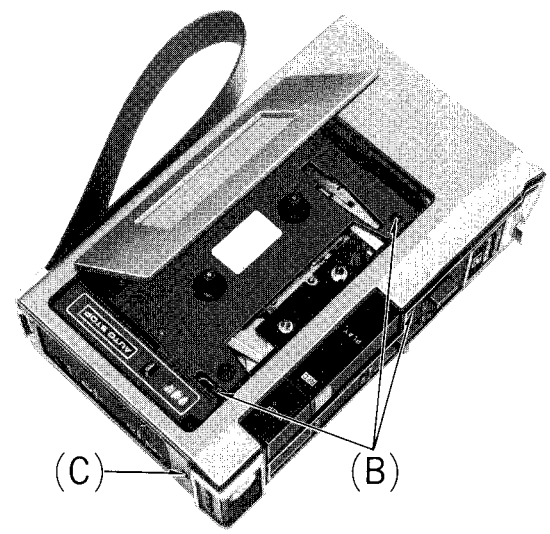


Fig. 3

HOW TO REMOVE FRONT PANEL

1. Remove battery case (A) and 8 front panel holding screws (B) (See figs. 2 and 3).
2. Then front panel can be removed.

HOW TO REMOVE BOTTOM CASE

1. Remove a bottom case holding screw (C).
2. Then bottom case can be removed.

ADJUSTMENTS

MEASUREMENTS AND ADJUSTMENTS METHOD

A. PRESSURE ROLLER ADJUSTMENT (See fig. 4)

1. Set into playback mode.
2. Connect the spring gauge to pressure roller lever and pull it in the direction of the arrow as shown in fig. 4.
3. Measure the tension at the monent when the pressure roller moves away from the capstan.
   Standard pressure: **400±50 gr**
4. If the pressure is out of tolerance, bend the part (a) of the pressure roller spring in either direction shown by the arrow until the correct pressure is attained.

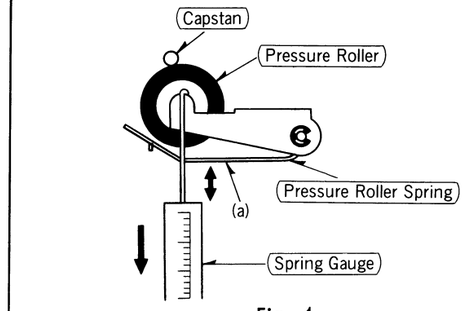


Fig. 4

B. HEAD AZIMUTH ADJUSTMENT (See figs. 5 and 6)

1. Play the test tape C-AA.
2. Adjust the screw for **maximum output** at monitor jack.

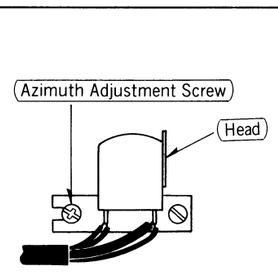


Fig. 5

C. TAPE SPEED ADJUSTMENT (See fig. 6)

1. Play the test tape C-WAT and supply output signal to frequency counter.
2. Read the value on frequency counter.
   Standard value: **3000 Hz±3%**
3. If the value is out of tolerance, adjust semi-fixed variable resistor on motor governor circuit board and take aim at 3000Hz±1% in order to secure accuracy.

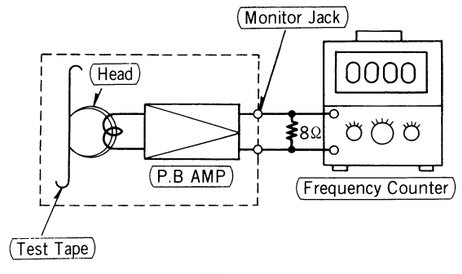


Fig. 6

D. RECORDING BIAS CURRENT ADJUSTMENT (See fig. 7)

1. Connect 10Ω resistor as shown in fig.7.
2. Connect VTVM to both ends of 10Ω resistor.
3. Set into record mode and read voltage on VTVM.
   Standard voltage: **7.5±0.5 mV**
4. If the voltage is out of tolerance, adjust VR3 until the VTVM indicates above value.

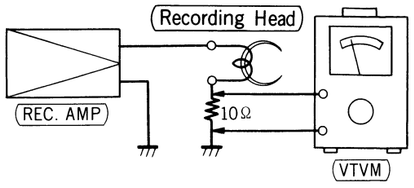


Fig. 7

E. LEVEL METER ADJUSTMENT (See fig. 8)

1. Supply DC 4.5 V to DC IN jack.
2. Set into playback mode and confirm the indicator position on level meter is as shown below.

Indicator position:

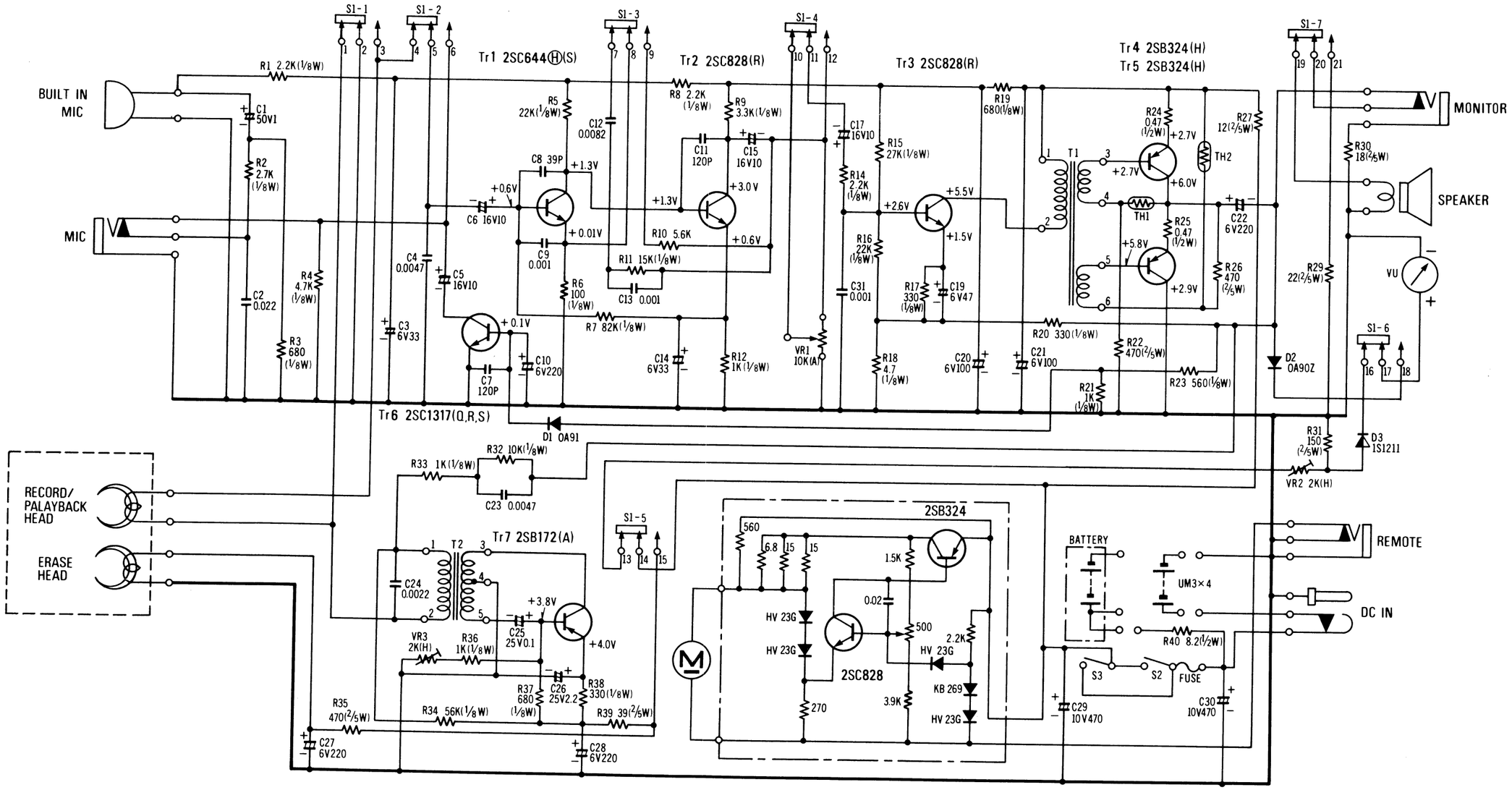
3. If the indicator get out of place, adjust VR2 until the level meter indicates above position.

Fig. 8

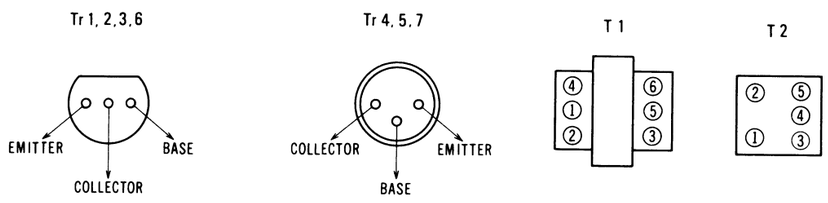
F. OTHER SPECIFICATIONS FOR REFERENCE (NO ADJUSTABLE)

ITEM	VALUE	REMARKS
Wow & flutter (RMS)	less than 0.4%	Use 3 kHz test tape (C-WAT).
Takeup torque.	55±15 gr	Use cassette torque metter (RP-8063).
Standard recording input level.	1 kHz −72±5 dB	To obtain 55μA of recording current through the recording head. Stop the bias oscillation by unsoldering point A shown in printed circuit board view on page 4.
Bias oscillation frequency.	42±5 kHz	———
Erase current.	DC 7.6±1 mA	———

SCHEMATIC DIAGRAM MODEL RQ-317S



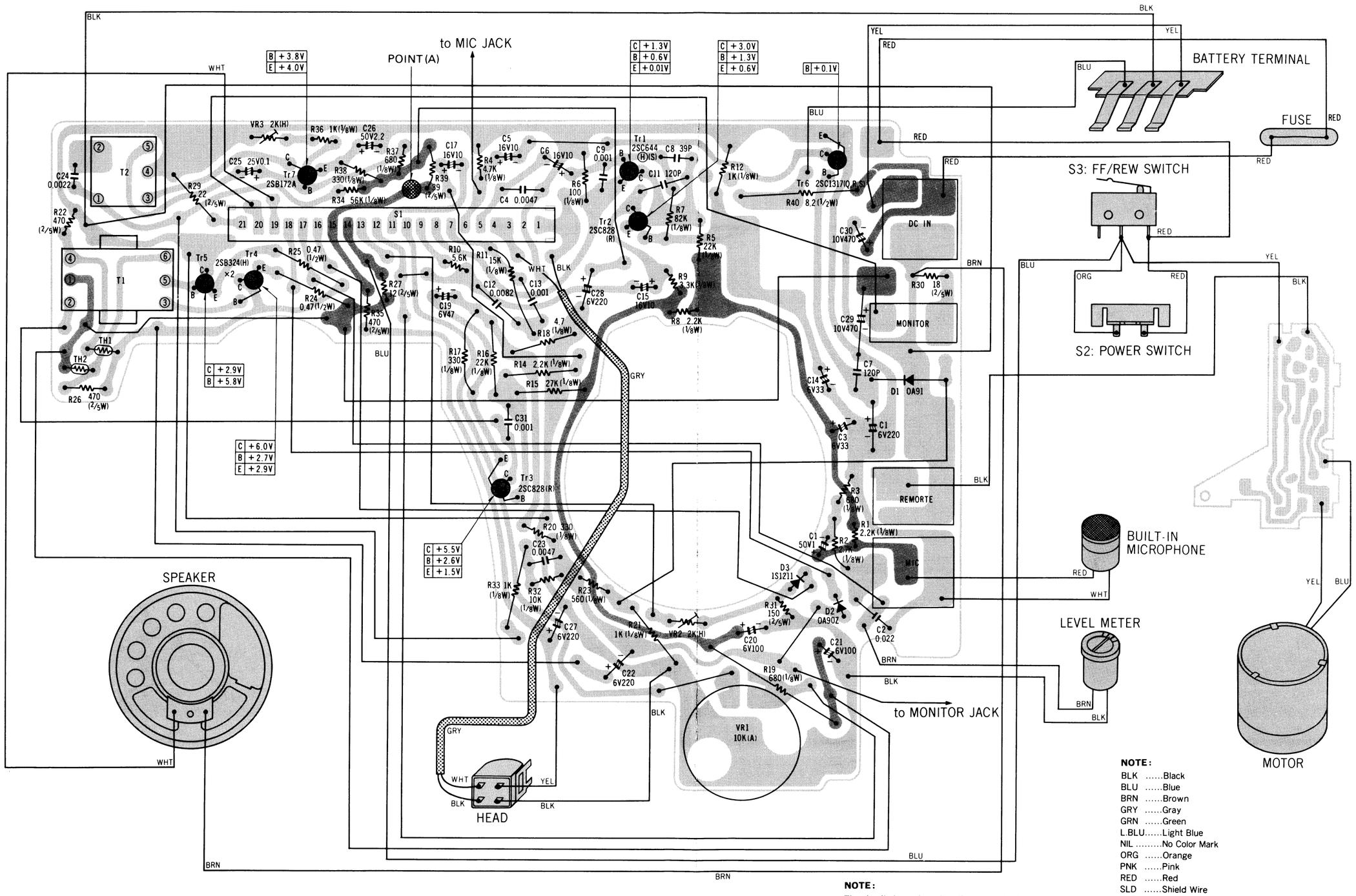
TERMINATIONS (BOTTOM VIEW)



NOTE:

1. S1-1~S1-7 ..... Record/playback select switch (shown in playback position).
2. S2 ..... Power ON/OFF switch.
3. S3 ..... FF & REW switch.
4. VR1..... Volume control.
5. VR2..... Level meter adjustment VR.
6. VR3..... Bias current adjustment VR.
7. Resistor values are in ohms (Ω), 1/4 watt unless specified otherwise. K=1,000Ω.
8. Capacitor values are in microfarads (μF) unless specified otherwise. P=Pico-farads.
9. All measurements are under no signal conditions with volume at minimum position. Use VTVM for voltage measurements.

WIRING CONNECTION DIAGRAM MODEL RQ-317S

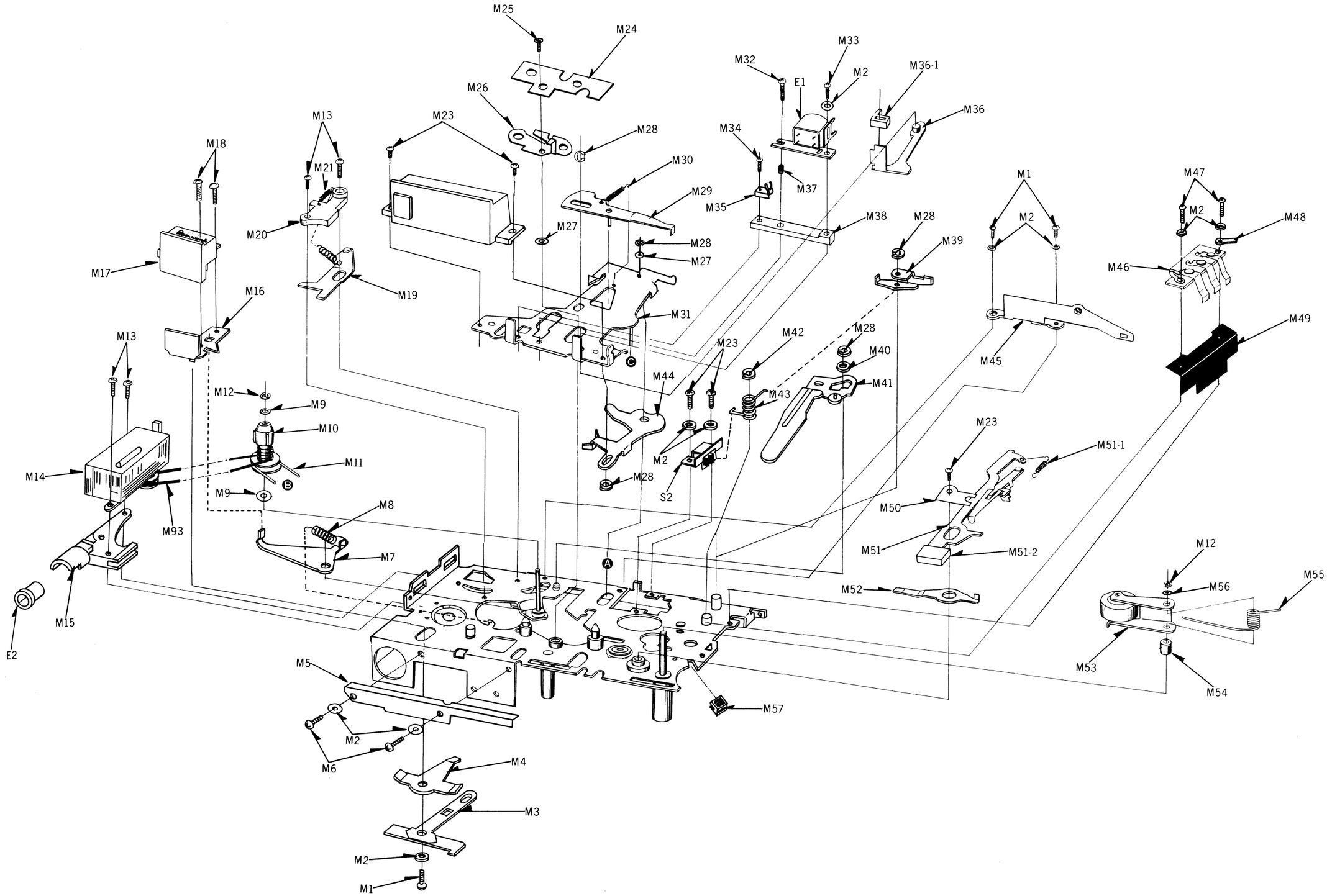


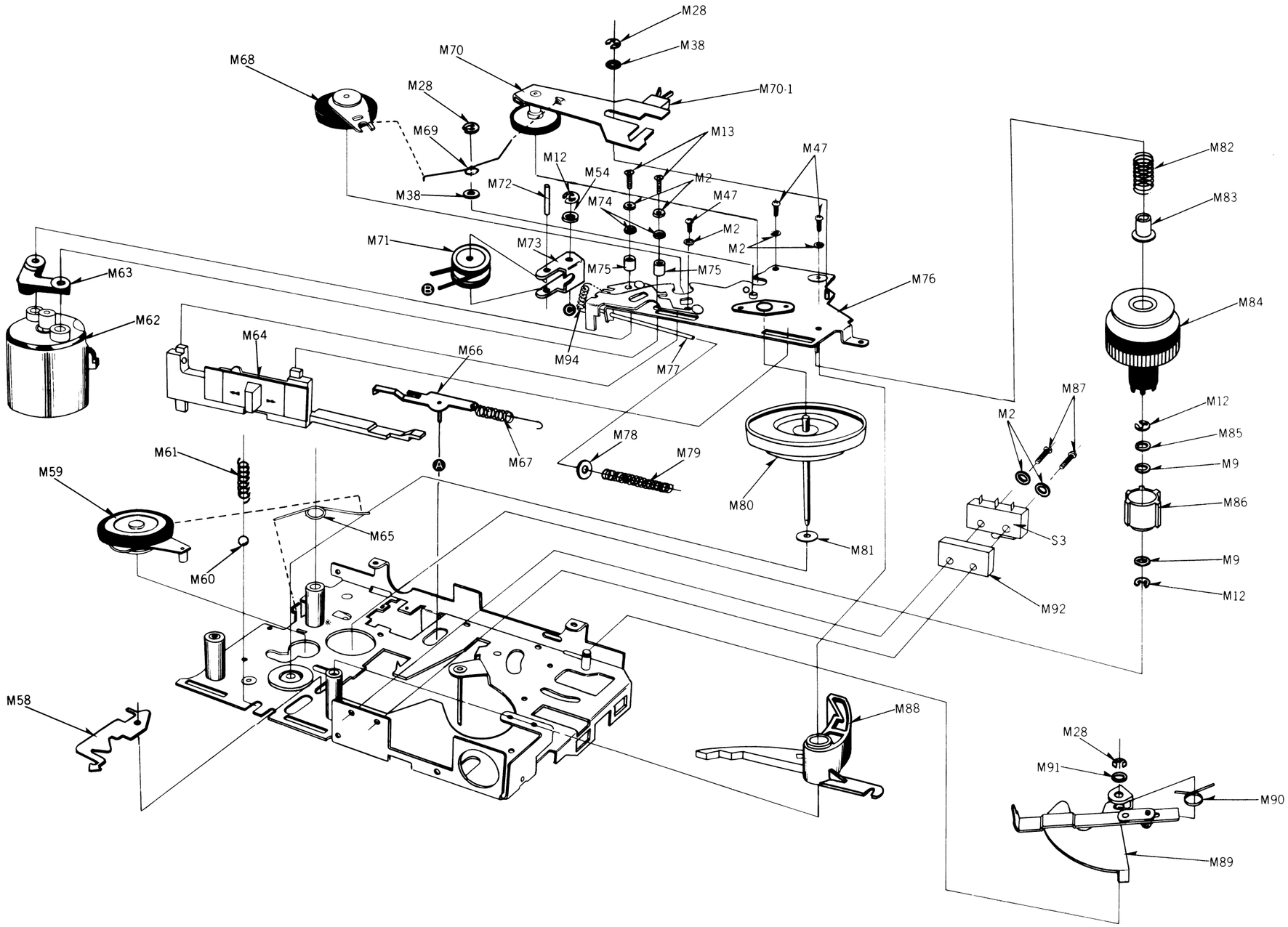
NOTE:
The circuit shown in red on the conductor is B circuit.
Values indicated in ▭ are DC voltage between the chassis and electrical parts.

NOTE:

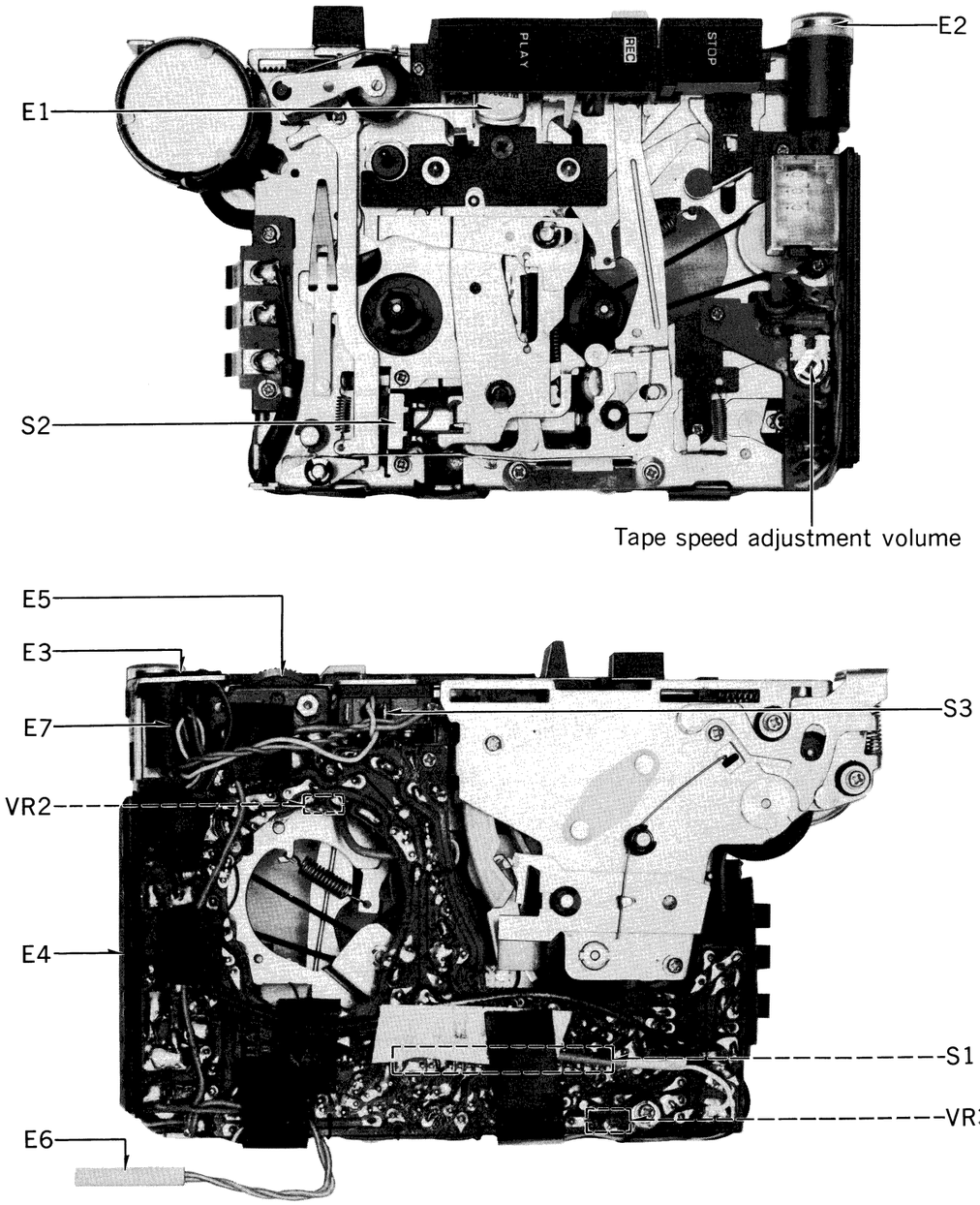
BLK	.....Black
BLU	.....Blue
BRN	.....Brown
GRY	.....Gray
GRN	.....Green
L.BLU	.....Light Blue
NIL	.....No Color Mark
ORG	.....Orange
PNK	.....Pink
RED	.....Red
SLD	.....Shield Wire
VLT	.....Violet
WHT	.....White
YEL	.....Yellow

EXPLODED VIEWS

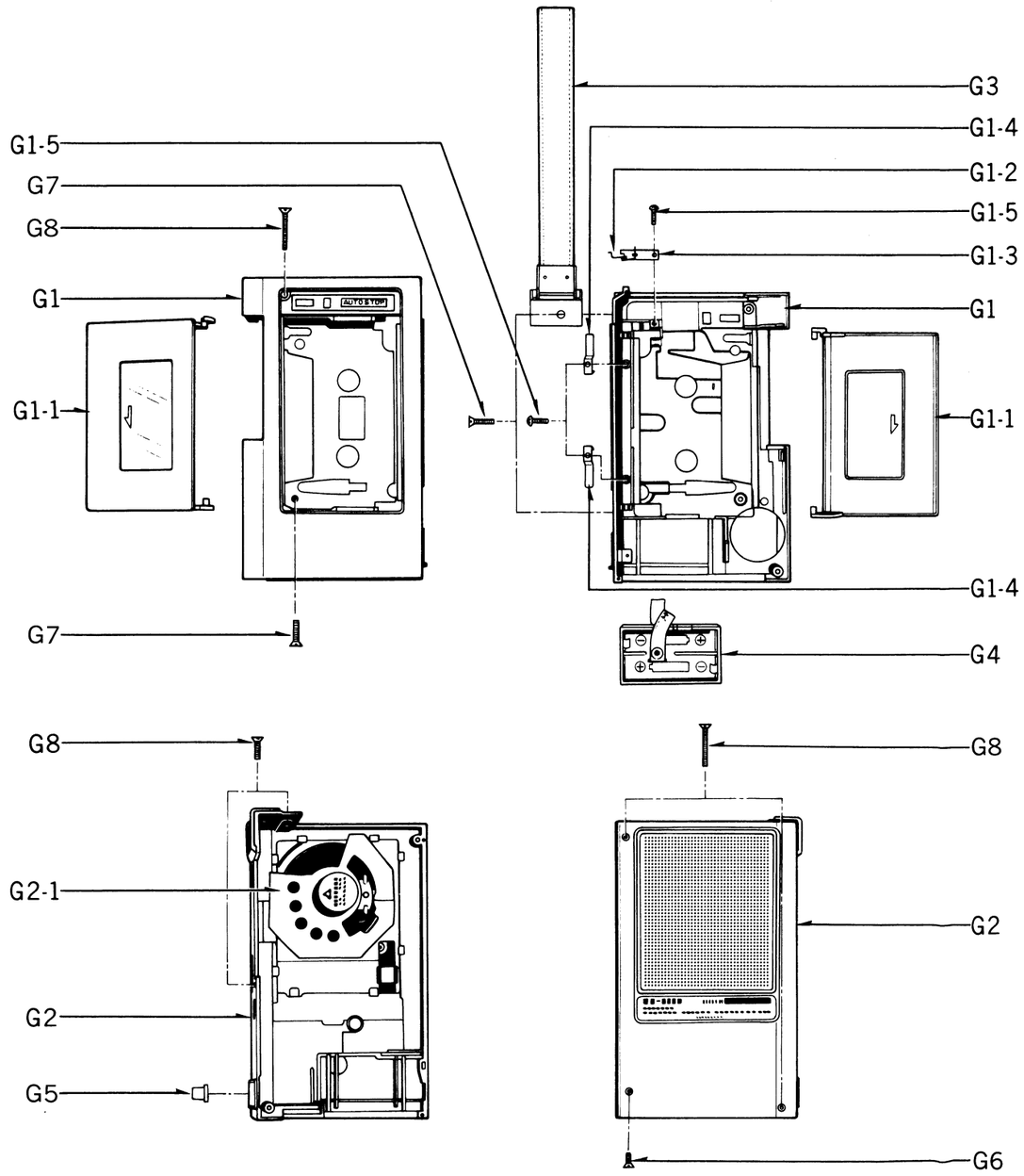



M28
M38
M70
M68
M70-1
M28
M69
M13
M47
M12
M54
M2
M72
M38
M74
M47
M2
M71
M73
M2
M75
M75
M76
M63
M62
M64
M66
M94
M77
M78
M61
M67
M79
M59
M80
M65
M81
M60
M58
M88
M82
M83
M84
M87
M2
M12
M85
M9
M86
S3
M9
M12
M92
M28
M91
M90
M89

ELECTRICAL PARTS LOCATION



CABINET PARTS

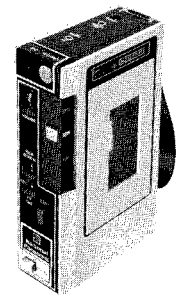


Printed in Japan

REPLACEMENT PARTS LIST

MODEL RQ-317S

National Panasonic



RQ-317S

NOTE:

1. Be sure to make your orders of replacement parts according to this list.
2. "Ⓝ" in "Remarks" column indicates new parts.
3. "Ⓚ" indicates the serrated parts with 18 notches.

NOTA:

1. Habrá que asegurarse que los pedidos de piezas de repuesto se hagan según esta lista.
2. "Ⓝ" marcado en la columna "Remarks", quiere decir que las piezas son nuevas.
3. "Ⓚ" indica las partes dentadas con 18 ranuras.

NOTE:

1. Bien s'assutet de se conformer à la liste suivante pour les commandes de pièces de rechange.
2. "Ⓝ", dans la colonne "Remarks", indique les pièces nouvelles.
3. "Ⓚ" indique les pièces cannelèes à 18 crans.

HINWEIS:

1. Bestellen Sie Ihre Ersatzteile genau nach dieser Liste.
2. "Ⓝ" in der "Remarks" Spalte bedeutet "neue Teile".
3. "Ⓚ" bezeichnet die gezähnten Teile mit 18 Zähnen.

按:

1. 關於代用零件之訂購，務請依照此表而行之爲荷。
2. 「備考」(Remarks) 一欄中之 "Ⓝ" 形符號標記表示該零件爲新出品。
3. "Ⓚ" 形符號標記表示備有18個凹槽的鋸齒狀零件。

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
	MECHANICAL PARTS					
M1	Screw ⊕2×4	XSN2+4FX	3			COMMON
M2	Spring Washer 2φ	XWA2B	17			"
M3	Stop Button Spring Holder	QMF1740	1			Ⓝ
M4	Stop Button Spring	QBP1618	1			Ⓝ
M5	Front Ornament	QMA4292	1			Ⓝ
M6	Screw ⊕2×6	XSN2+6FX	2			COMMON
M7	Stop Lever	QML2796	1			Ⓝ
M8	Stop Button Metal Spring	QBTA0026	1			RQ-212DS
M9	Poly Washer 2.1φ×4φ×0.25 t	QBW2012	4			Ⓝ
M10	Left Reel Table Assembly	QXD0046	1			Ⓝ
M11	Rewind Belt	QDB0213	1			Ⓝ
M12	Stop Ring 1.5φ	XUC15FT	5			COMMON
M13	Screw ⊕2×8	XSN2+8FX	6			"
M14	Tape Counter	QDC0063	1			RQ-212DS
M15	Tape Counter Table	QMZ1153	1			Ⓝ
M16	Stop Lever Metal Assembly	QXLA0073	1			RQ-212DS
M17	Stop Button	QGO1187	1			Ⓝ
M18	Screw ⊕2×3 (Black)	XSN2+3FVK	2			COMMON
M19	Safty Metal	QMLA0025	1			RQ-212DS
M20	Safty Metal Pressure	QBJA0097	1			"
M21	Safty Rod Spring	QBTA0019	1			"
M22	Play Button Assembly	QXBA0054	1			Ⓝ
M23	Screw ⊕2×3	XSN2+3FX	4			COMMON
M24	Ornament Plate	QMFA0041	1			RQ-212DS
M25	Screw ⊕2.6×5 (Black)	QSS26+5FVK	1			COMMON
M26	Head Base Spring	QBPA0029	1			RQ-212DS
M27	Washer 3.2φ×6φ×0.15 t	QBJA3025	2			Ⓝ
M28	Stop Ring 2.3φ	XUC23FT	8			COMMON
M29	Auto Stop Lever Assembly	QXL0899	1			Ⓝ
M30	Auto Stop Lever Spring	QBTA0011	1			RQ-212DS
M31	Head Base Plate Assembly	QXK1550	1			Ⓝ
M32	Screw ⊖2×7	XSB2−7FX	1			COMMON
M33	Screw ⊖2×5	XSN2−5FX	1			"

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
M34	Screw ⊖2×6	XSN2−6FX	1			COMMON
M35	Cord Clamper-A	QTDA0003	1			Ⓝ
M36	Detecting Rod Assembly	QXHA0021	1			RQ-212DS
M36-1	Detecting Piece	QBJA0051	1			〃
M37	Head Spring	QBCA0008	1			〃
M38	Head Clamper	QBJA00036	1			〃
M39	Lid Pressure Lever	QMLA0059	1			Ⓝ
M40	Fiber Washer 3.2×6×0.5	QBK7121	3			RS-271US
M41	Record Button Rod Assembly	QXR0105	1			Ⓝ
M42	Stop Ring	XUC3FT	1			COMMON
M43	Switch Spring	QBN1413	1			Ⓝ
M44	Hook Lever Assembly	QXL0895	1			Ⓝ
M45	Cassette Pressure Spring	QBP1619	1			Ⓝ
M46	Battery Terminal Assembly	QXQA0028	1			RQ-212DS
M47	Screw ⊕2×5	XSN2+5FX	5			COMMON
M48	Cord Clamper-B	QTD1163	1			RS-715US
M49	Cover Plate	QBKA0024	1			Ⓝ
M50	Eject Lever Pressure Spring	QBPA0017	1			RQ-212DS
M51	Eject Button Rod Assembly	QXR0124	1			Ⓝ
M51-1	Eject Button Spring	QBTA0010	1			RQ-212DS
M51-2	Eject Button	QBJA0094	1			〃
M52	Eject Button Safty Metal	QML2841	1			Ⓝ
M53	Pressure Roller Assembly	QXL0903	1			Ⓝ
M54	Pressure Roller Coller	QBJA0037	1			RQ-212DS
M55	Pressur Roller Spring	QBNA0012	1			〃
M56	Mylar Washer 2.6φ×4φ×0.15 t	QBJA3007	2			RQ-215S
M57	Motor Cushion Rubber	QBGA0015	1			RQ-212DS
M58	Head Base Plate Release Lever Assembly	QXL0898	1			Ⓝ
M59	Takeup Roll Lever Assembly	QXL0900	1			Ⓝ
M60	Steel Ball 4φ	QDKA0002	1			RQ-212DS
M61	Steel Ball Pressure Spring	QBCA0003	1			〃
M62	Motor	MDE5F6	1			Ⓝ
M63	Motor Holding Rubber	QBGA0010	1			RQ-215S
M64	FF Lever Assembly	QXL0897	1			Ⓝ
M65	Takeup Idler Spring	QBNA0029A	1			Ⓝ

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
M66	Spring Hook Lever Assembly	QXL0902	1			Ⓝ
M67	Head Base Plate Release Spring	QBT1781M	1			Ⓝ
M68	Idler Lever-B Assembly	QXLA0025	1			RQ-212DS
M69	Idler Spring	QBN1411	1			Ⓝ
M70	Rewind Lever Assembly	QXL0894	1			Ⓝ
M70-1	Right Reel Table Operation Piece	QMD0009	1			Ⓝ
M71	Connection Pulley	QXI0082	1			Ⓝ
M72	Connection Pulley Shaft	QMS2381	1			Ⓝ
M73	Connection Pulley Lever	QML2797	1			Ⓝ
M74	Washer	XWE2C6	2			Ⓝ
M75	Spacer Tube	QMCA0005	2			Ⓝ
M76	Lower Plate Assembly	QXK1552	1			Ⓝ
M77	FF Lever Spring Shaft	QMN1984	1			Ⓝ
M78	Washer 2.1ϕ×4.3ϕ×0.32 t	XWE2BW	1			RQ-215S
M79	FF Lever Spring-A	QBCA0004B	1			Ⓝ
M80	Flywheel Assembly	QXF0104	1			Ⓝ
M81	Fiber Washer 2.6×4×0.25 t	QBKA0001	1			RQ-222AS
M82	Right Reel Table Spring	QBC1250	1			Ⓝ
M83	Right Reel Table Spacer	QMZ1152	1			Ⓝ
M84	Right Reel Table Assembly	QXD0039	1			Ⓝ
M85	Mylar Washer 2.1×4×0.15 t	QBJA3024	1			Ⓝ
M86	Right Reel Table Boss	QMB1157	1			Ⓝ
M87	Screw ⊕2×12	XSN2+12FX	2			COMMON
M88	FF/REW Lever	QML2801	1			Ⓝ
M89	Record Lever-B Assembly	QXL0896	1			Ⓝ
M90	Record Lever Spring	QBNA0018	1			RQ-212DS
M91	Fiber Washer 3.2×6×0.25 t	QBK7122	1			RS-271US
M92	Micro Switch Table	QBJA0032	1			RQ-212DS
M93	Counter Belt	QDBA0009	1			"
M94	Pause Lever Spring	QBC1251	1			Ⓝ
	RESISTORS					
R1, 8	Carbon Resistor 2.2 KΩ 1/8 W	ERD18VJ222	2			
R2	" 2.7 KΩ 1/8 W	ERD18VJ272	1			
R3, 37	" 680Ω 1/8 W	ERD18VJ681	2			

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
R4	" 4.7KΩ 1/8W	ERD18VJ472	1			
R5, 16	" 22KΩ 1/8W	ERD18VJ223	2			
R6	" 100Ω 1/8W	ERD18VJ101	1			
R7	" 82KΩ 1/8W	ERD18VJ823	1			
R9	" 3.3KΩ 1/8W	ERD18VJ332	1			
R10	" 5.6KΩ 1/8W	ERD18VJ562	1			
R11	" 15KΩ 1/8W	ERD18VJ153	1			
R12, 33, 36	" 1KΩ 1/8W	ERD18VJ102	3			
R14	" 2.2KΩ 1/8W	ERD18VJ222	1			
R15	" 27KΩ 1/8W	ERD18VJ273	1			
R17	" 330Ω 1/8W	ERD18VJ331	1			
R18	" 4.7Ω 1/8W	ERD18VJ4R7	1			
R19	" 680Ω 1/8W	ERD18VJ681	1			
R20, 38	" 330Ω 1/8W	ERD18VJ331	2			
R21	" 1KΩ 1/8W	ERD18VJ102	1			
R22, 26, 35	" 470Ω 2/5W	QRD25VJ471	3			Ⓝ
R23	" 560Ω 1/8W	ERD18VJ561	1			
R24, 25	Wire-wound Resistor 0.47Ω 1/2W	ERW12PKR47	2			
R27	Carbon Resistor 12Ω 2/5W	QRD25VJ120	1			Ⓝ
R29	" 22Ω 2/5W	QRD25VJ220	1			Ⓝ
R30	" 18Ω 2/5W	QRD25VJ180	1			Ⓝ
R31	" 150Ω 2/5W	QRD25VJ151	1			Ⓝ
R32	" 10KΩ 1/8W	ERD18VJ103	1			
R34	" 56KΩ 1/8W	ERD18VJ563	1			
R39	" 39Ω 2/5W	QRD25VJ390	1			Ⓝ
R40	" 8.2Ω 1/2W	ERD12VJ8R2	1			
	VARIABLE RESISTORS					
VR1	Variable Resistor 10KΩ (A)	EVJA2AT12A14	1			RQ-212DS
VR2, 3	Semi-fixed Variable Resistor 2KΩ (H)	RVL0911H005	2			"
	CAPACITORS					
C1	Electrolytic Capacitor 1μF	ECEA50V1L	1			
C2	Mylar Capacitor 0.022μF	ECQM05223MZ	1			
C3, 14	Electrolytic Capacitor 33μF	ECEA6V33L	2			

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
C4	Mylar Capacitor 0.0047μF	QCQM05472KZ	1			Ⓝ
C5, 6, 15, 17	Electrolytic Capacitor 10μF	ECEA16V10L	4			
C7, 11	Ceramic Capacitor 120 pF	QCKD05121P	2			Ⓝ
C8	〃 39 pF	QCKD05390P	1			Ⓝ
C9	〃 0.001μF	QCKX05102PJ	1			Ⓝ
C10, 22, 27, 28	Electrolytic Capacitor 220μF	ECEA6V220L	4			
C12	Mylar Capacitor 0.0082μF	ECQM05822KZ	1			
C13, 31	〃 0.001μF	ECQM05102MZ	2			
C19	Electrolytic Capacitor 47μF	ECEA6V47L	1			
C20, 21	〃 100μF	ECEA6V100L	2			
C23	Mylar Capacitor 0.0047μF	ECQM05472KZ	1			
C24	〃 0.0022μF	ECQM05222KZ	1			
C25	Aluminum Capacitor 0.1μF	QCAG25ER1Y	1			Ⓝ
C26	Electrolytic Capacitor 2.2μF	ECEA50Z2R2	1			
C29, 30	〃 470μF	ECEA10V470L	2			
	TRANSISTORS					
Tr1	Transistor	2SC644Ⓗ(S)	1			RS-610US
Tr2, 3	〃	2SC828(R)	2			RS-27[illegible]US
Tr4, 5	〃	2SB324(H)	2			RQ-43[illegible]S
Tr6	〃	2SC1317(Q,R,S)	1			RS-45[illegible]S
Tr7	〃	2SB172A	1			RQ-43[illegible]S
	DIODES					
D1	Diode	OA91	1			RQ-21[illegible]DS
D2	〃	OA90Z	1			RS-610US
D3	Silicon Diode	1S1211	1			RQ-44[illegible]S
	TRANSFORMERS					
T1	Input Transformer	QLT3E3H	1			Ⓝ
T2	Oscillator Transformer	QLB0309	1			RQ-21[illegible]DS
	THERMISTORS					
TH1, 2	Thermistor	QVM300A	2			RQ-21[illegible]S

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
	SWITCHES					
S1	Slide Switch (Record/Playback)	QSS7202	1			Ⓝ
S2	Slide Switch (Power)	QSS1208T	1			Ⓝ
S3	Micro Switch (FF/REW)	QSM0045	1			RQ-212DS
	ELECTRICAL PARTS					
E1	Head	WY036AZ	1			RQ-212DS
E2	Level Meter	QSL4002RN	1			Ⓝ
E3	Built-in Microptione	WM054V	1			RQ-212DS
E4	Jack Plate Assembly	QJAA0003	1			Ⓝ
E5	Volume Knob Assembly	QYTA0004	1			Ⓝ
E6	Fuse	QETA0004	1			Ⓝ
E7	Microphone Cover	QBGA0028	1			Ⓝ
	CABINET PARTS					
G1	Main Body Case Assembly	QYMA0013HA	1			Ⓝ
G1-1	Cassette Lid Assembly	QYFA0007H	1			Ⓝ
G1-2	Cassette Lid Spring	QBNA0028	1			RQ-212DS
G1-3	Cassette Lid Spring Holder	QKTA0006	1			Ⓝ
G1-4	Cassette Lid Pressure Spring	QBP1377	2			Ⓝ
G1-5	Tapping Screw ⊕2.6×6	XTN26+6	3			COMMON
G2	Bottom Case Assembly	QYMA0028H	1			Ⓝ
G2-1	Shield Sheet	QKQ1064	1			Ⓝ
G3	Handle Assembly	QKHA0006	1			Ⓝ
G4	Battery Case Assembly	QYFA0003	1			RQ-212DS
G5	Pause Button	QGOA0006	1			Ⓝ
G6	Screw ⊕2×4	XSC2+4BV	1			Ⓝ
G7	Screw ⊕2×6	XSC2+6BV	5			RQ-212DS
G8	Screw ⊕2×16	XSC2+16BV	2			Ⓝ
	ACCESSORIES					
A1	Cassette Tape	QFT1TCCNAYZ	1			RQ-212DS
A2	Radio Cord-M	RP010A	1			〃
A3	AC Plug Adaptor	QJP0603S	1			COMMON

Ref. No.	Description	Part No.	Pcs/ Set	Price (Per Pce.)		Remarks
A4	Earphone	EAE2SB	1			RQ-212DS
A5	Open Plug	QJP0959A	1			RQ-316S
A6	AC Adaptor	RP667N	1			Ⓝ
A7	Carrying Case	QFKA0013	1			Ⓝ
A8	Instruction Book	QQT0834	1			Ⓝ
	PACKINGS					
P1	Gift Box	QPNA0033	1			Ⓝ
P2	Inner Cushion-A	QPN2433A	1			Ⓝ
P3	Inner Cushion-B	QPN2434A	1			Ⓝ
P4	Dust Cover	XZB18X30A05	1			Ⓝ
P5	Accessory Box	QPW1137	1			RQ-212S

Service Manual

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Supplementary

RQ-317S-E

The following shows differences of the parts between RQ-317S and RQ-317S-E. For the comparison, please refer to the Service Manual of RQ-317S. There is no great changes except the differences of parts listed below.
There will be, therefore, no inconveniences in performing service work and carrying on perfect parts control.
We hope you would make the best use of this supplementary.

Ref. No.	Description	PART No. (RQ-317S)	PART No. (RQ-317S-E)	Remarks
R2	Carbon Resistor	ERD18VJ272	ERD18VJ681	
R4	Carbon Resistor	ERD18VJ472	ERD18VJ152	
A2	Radio cord-M	RP010A	—	Disused
A2	Radio cord-E	—	RP052A	Added
A3	AC plug adaptor	QJP0603S	—	Disused
A6	AC adaptor	RP667N	RP667E	

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